CLAIMS

What we claim is:

- An aqueous, energy curable, homogenous, composition comprising the neutralization product of
 - (a) an ethylenically unsaturated acidic resin containing carboxylic acid, acrylic functional groups, methacrylic functional groups or a combination thereof, and
 - (b) an ammonia, amine, alkali metal hydroxide or a combination thereof; in
 - (c) water;
 - where upon curing with an actinic radiation source, a stereo-crosslinked ionomer forms offering the composition an increased cross-linked density.
- 2. The composition of Claim 1 wherein the, ethylenically unsaturated resin is a styrene/maleic anhydride copolymer, partially esterified with a hydroxy alkyl acrylate or methacrylate functional group.
- 3. The composition of Claim 2 wherein the partially esterified styrene/maleic anhydride copolymer is further esterified with an alcohol group.
- 4. The composition of Claim 1 wherein the neutralizing agent is ammonia, ethylenically unsaturated amine, or a combination thereof.
- 5. The composition of Claim 4 wherein the neutralizing agent is ammonia, ethylenically unsaturated tertiary amine, or a combination thereof
- 6. The composition according to Claim 1, wherein the ethylenically unsaturated resin has an acid number of at least 80 and a weight average molecular weight between 1,000 and 50,000.

- 7. The composition according to Claim 6, wherein the ethylenically unsaturated resin has an acid number of at least 80 and a weight average molecular weight between 1,000 and 25,000.
- 8. The composition according to Claim 7, wherein the ethylenically unsaturated resin has an acid number of at least 80 and a weight average molecular weight between 1,000 and 10,000.
- 9. An aqueous, energy curable, homogenous, composition comprising: the neutralization product of
 - (d) an ethylenically unsaturated basic resin containing amine, acrylic functional groups, methacrylic functional groups or a combination thereof and
 - (e) an acid; in
 - (f) water,

where upon curing with an actinic radiation source, a stereo-crosslinked ionomer forms offering the composition an increased cross-linked density.

- 10. An aqueous, energy curable, homogenous, composition comprising: the neutralization product of
 - (a) an ethylenically unsaturated styrene/maleic anhydride copolymer acidic resin, partially esterified with a hydroxy alkyl acrylate, further esterified by an alcohol, containing carboxylic acidic functional groups; and
 - (b) an ammonia, ethylenically unsaturated tertiary amine, or a combination thereof; in
 - (c) water,

where upon curing with an actinic radiation source, a stereo-crosslinked ionomer forms offering the composition an increased cross-linked density.

- 11. A method for preparing an energy curable coating comprising employing the composition of Claim 1.
- 12. A method for preparing an energy curable coating comprising employing the composition of Claim 9.
- 13. A method for preparing an energy curable coating comprising employing the composition of Claim 10.
- 14. An energy curable coating comprising the composition of Claim 1.
- 15. An energy curable coating comprising the composition of Claim 9.
- 16. An energy curable coating comprising the composition of Claim 10.